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1 Performance evaluation of Ethernet and HYPERbus local area networks using computer modeling



David S. Jennings, Aaron H. Konstam

 December 1985 **Proceedings of the 17th conference on Winter simulation**
Publisher: ACM Press

 Full text available: pdf(630.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The local area networks Ethernet and HYPERbus were simulated using the GPSS program language. Measurements of performance were network stability, messages transmitted per unit time, and the number of transmission attempts required per message. The simulations produced these results. Both networks were stable at the normal, 90 and 100 percent loads. At the 90 and 100 percent loads, Ethernet transmitted between 90.31 and 99.16 percent of the expected number of messages per unit time. HYPERbus ...

2 Ethernet: distributed packet switching for local computer networks



Robert M. Metcalfe, David R. Boggs

 July 1976 **Communications of the ACM**, Volume 19 Issue 7

Publisher: ACM Press

 Full text available: pdf(1.10 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Ethernet is a branching broadcast communication system for carrying digital data packets among locally distributed computing stations. The packet transport mechanism provided by Ethernet has been used to build systems which can be viewed as either local computer networks or loosely coupled multiprocessors. An Ethernet's shared communication facility, its Ether, is a passive broadcast medium with no central control. Coordination of access to the Ether for packet broadcasts is distributed amo ...

Keywords: broadcast communication, computer networks, distributed computing, distributed control, multiprocessing, packet switching, statistical arbitration

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1 [An Extensible Platform for Evaluating Security Protocols](#)

 Seny Kamara, Darren Davis, Lucas Ballard, Ryan Caudy, Fabian Monroe
 April 2005 **Proceedings of the 38th annual Symposium on Simulation**

Publisher: IEEE Computer Society

 Full text available: pdf(246.99 KB) Additional Information: [full citation](#), [abstract](#)

We present a discrete-event network simulator, called Simnet, designed specifically for analyzing network-security protocols. The design and implementation is focused on simplicity of abstraction and extensibility. Moreover, its modular architecture allows operators to dynamically customize running simulations. To demonstrate its strengths we present cases studies that focus on examining security-centric problem domains. In particular, we present an analysis of worm propagation modeling for worm ...

2 [A study of devirtualization techniques for a Java Just-In-Time compiler](#)

 Kazuaki Ishizaki, Motohiro Kawahito, Toshiaki Yasue, Hideaki Komatsu, Toshio Nakatani
 October 2000 **ACM SIGPLAN Notices , Proceedings of the 15th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '00**, Volume 35 Issue 10

Publisher: ACM Press

 Full text available: pdf(225.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many devirtualization techniques have been proposed to reduce the runtime overhead of dynamic method calls for various object-oriented languages, however, most of them are less effective or cannot be applied for Java in a straightforward manner. This is partly because Java is a statically-typed language and thus transforming a dynamic call to a static one does not make a tangible performance gain (owing to the low overhead of accessing the method table) unless it is inlined, and partly because t ...

3 [Hypermedia systems: IUHM: a hypermedia-based model for integrating open services, data and metadata](#)

 Marc Nanard, Jocelyne Nanard, Peter King
 August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**

Publisher: ACM Press

 Full text available: pdf(481.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper discusses a new hypermedia-based model known as IUHM (Information Unit

Hypermedia Model). IUHM emerged as a result of the development of the OPALES system, a collaborative environment for exploring and indexing video archives in a digital library. A basic design requirement of OPALES is that it must permit and support the integration of new services throughout its life cycle. Thus, IUHM depends heavily upon the notions of extensibility and openness. Support for openness, extensibility ...

Keywords: hypertext structure, metadata, open hypermedia system, semantics, service integration, structural computing

4 Position papers for panel session: The use of a writable control memory in a multiprogramming environment ☐



Maurice V. Wilkes

September 1972 **Conference record of the 5th annual workshop on Microprogramming**

Publisher: ACM Press

Full text available: pdf(352.90 KB) Additional Information: [full citation](#), [references](#), [citations](#)

5 An 8mA, 3.8dB NF, 40dB gain CMOS front-end for GPS applications ☐



F. Svelto, S. Deantoni, G. Montagna, R. Castello

August 2000 **Proceedings of the 2000 international symposium on Low power electronics and design**

Publisher: ACM Press

Full text available: pdf(1.75 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A fully differential 0.35 μ m CMOS LNA plus mixer, tailored to a double conversion architecture, for GPS applications has been realized. The LNA makes use of an inductively degenerated input stage and a resonant LC load, featuring 12% frequency tuning, accomplished by an MOS varactor. The mixer is a Gilbert cell like, in which an NMOS and a PMOS differential pair, shunted together, realize the input stage. This topology allows to save power, for given mixer gain and linearity. The front-e ...

Keywords: CMOS, circuit-analog, communication, design, low-power design, low-power dissipation, performances trade-off

6 A frame based system for representing knowledge about VLSI design: a proposal ☐

W. Stephen Adolph, Hassan K. Reghbati, Amar Sanmugasunderam

July 1986 **Proceedings of the 23rd ACM/IEEE conference on Design automation**

Publisher: IEEE Press

Full text available: pdf(654.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Engineers use large amounts of stereotype knowledge about basic circuit components and design techniques when designing a circuit. This knowledge is used to guide design decisions in order to produce an optimal design. Such stereotyped knowledge can be represented as frames in a knowledge based system and such a knowledge base can be used to implement a silicon compiler. This paper describes a pilot system we are developing at SFU which uses frames to represent abstract models of circuit co ...

Keywords: VLSI design, computer assisted design, knowledge representation, silicon compilation

Patent Assignment Abstract of Title

Total Assignments: 2**Application #:** 10066532 **Filing Dt:** 01/31/2002**Patent #:** NONE**Issue Dt:****PCT #:** NONE**Publication #:** US20030081620 **Pub Dt:** 05/01/2003**Inventors:** Phillip A. Danner, William B. Estep, Paul D. Scanlon, Robert A. Rucinski, Robert A. McKeel**Title:** Ethernet switch and system**Assignment: 1**

Reel/Frame: <u>012972 / 0223</u>	Received: 06/13/2002	Recorded: 05/29/2002	Mailed: 08/12/2002	Pages: 4
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Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignors:** DANNER, PHILLIP A.**Exec Dt:** 05/28/2002ESTEP, WILLIAM B.**Exec Dt:** 05/28/2002SCANLON, PAUL D.**Exec Dt:** 05/28/2002RUCINSKI, ROBERT A.**Exec Dt:** 05/28/2002MCKEEL, ROBERT A.**Exec Dt:** 05/28/2002**Assignee:** GE CISCO INDUSTRIAL NETWORKS, INC.

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Assignment: 2

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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

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- ☐ 1. **Security features in Ethernet switches for access networks**
 Guruprasad, A.; Pandey, P.; Prashant, B.;
 TENCON 2003. Conference on Convergent Technologies for Asia-Pacific Regi
 Volume 3, 15-17 Oct. 2003 Page(s):1211 - 1214 Vol.3
 Digital Object Identifier 10.1109/TENCON.2003.1273439
[AbstractPlus](#) | Full Text: [PDF](#)(318 KB) IEEE CNF
- ☐ 2. **Handover latency analysis on mobile Ethernet**
 Aoyama, T.; Ishibashi, K.; Bandai, M.; Kuroda, M.; Watanabe, T.;
 Wireless Communications and Networking Conference, 2005 IEEE
 Volume 3, 13-17 March 2005 Page(s):1389 - 1394 Vol. 3
 Digital Object Identifier 10.1109/WCNC.2005.1424719
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